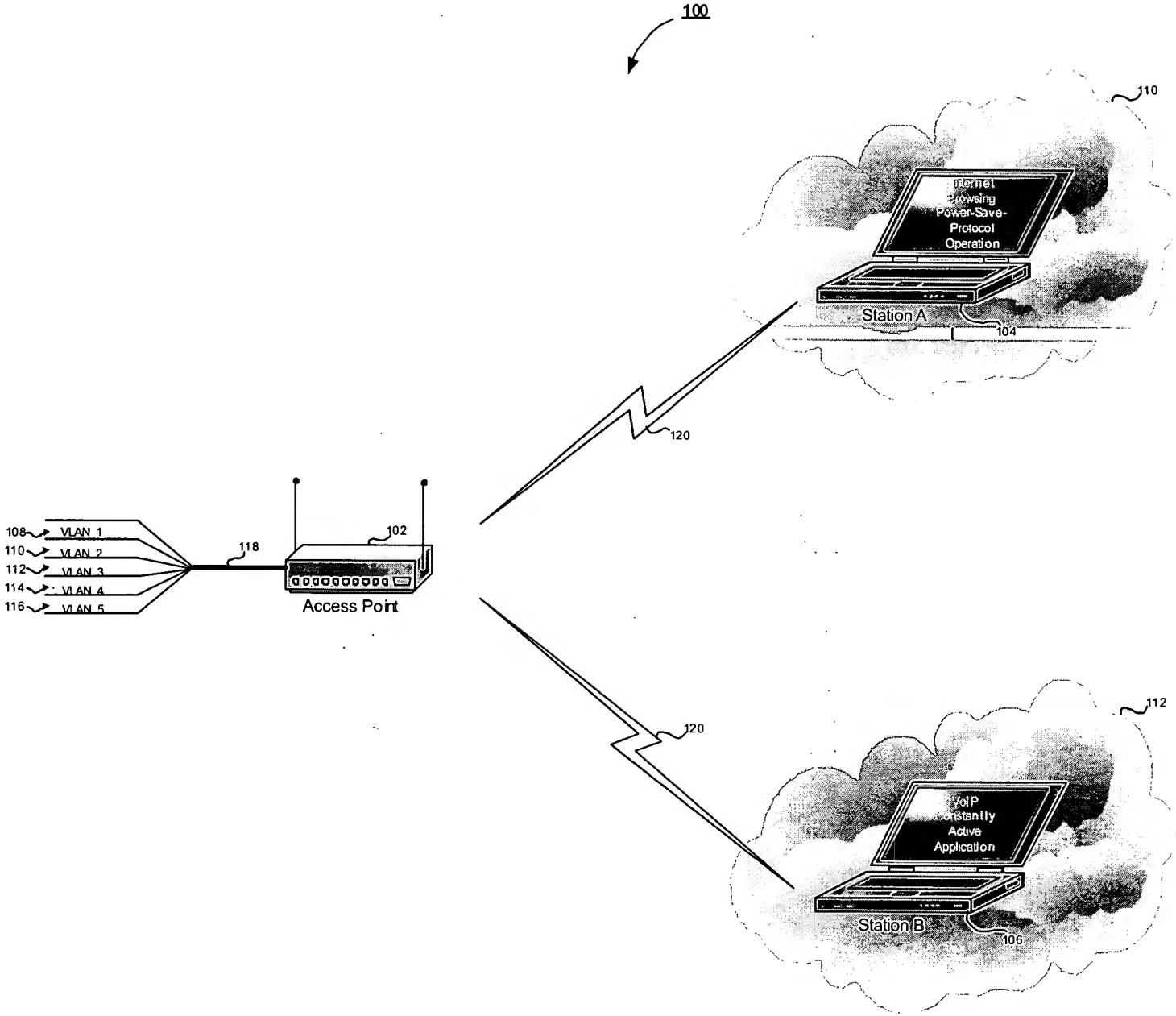

100
110
Internet Browsing Power-Save-Protocol Operation
Station A
104
120
108
VLAN 1
110
VLAN 2
112
VLAN 3
114
VLAN 4
116
VLAN 5
118
102
Access Point
120
112
VoIP Constantly Active Application
Station B
106

FIG. 1

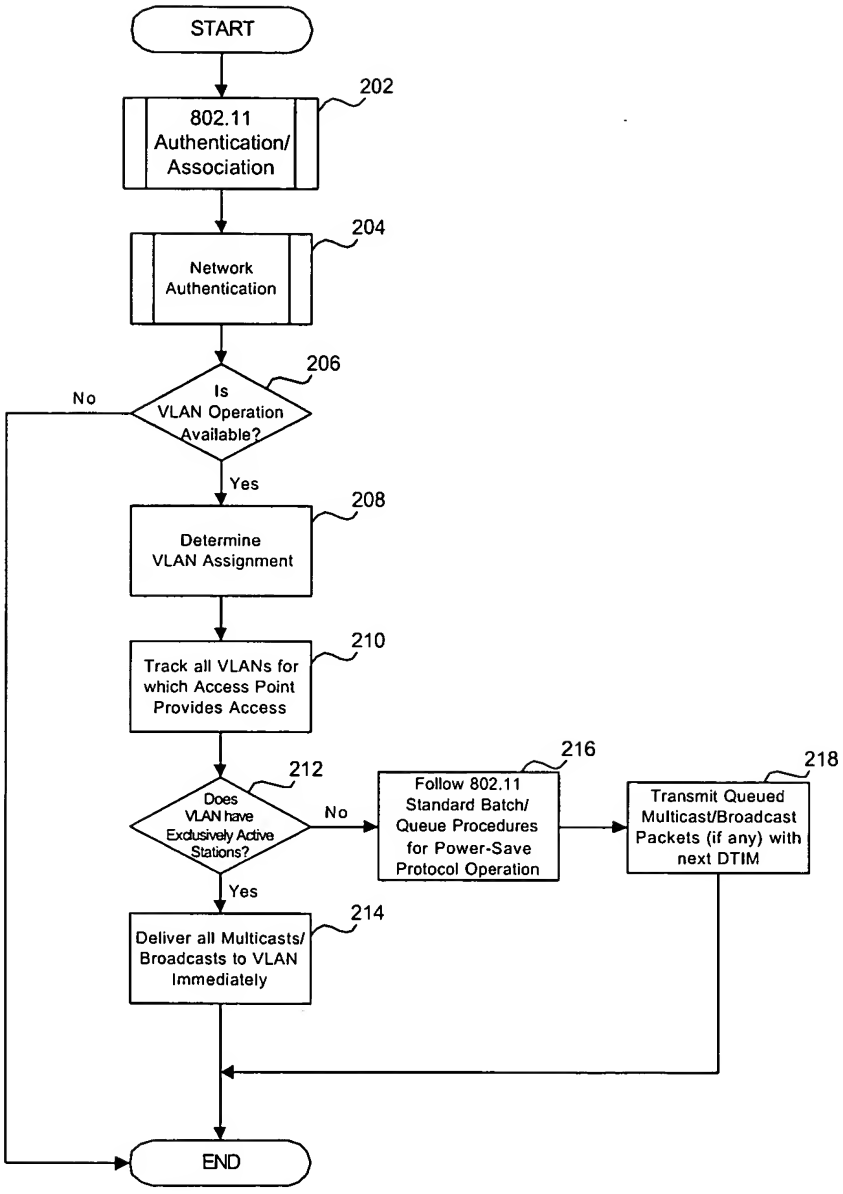
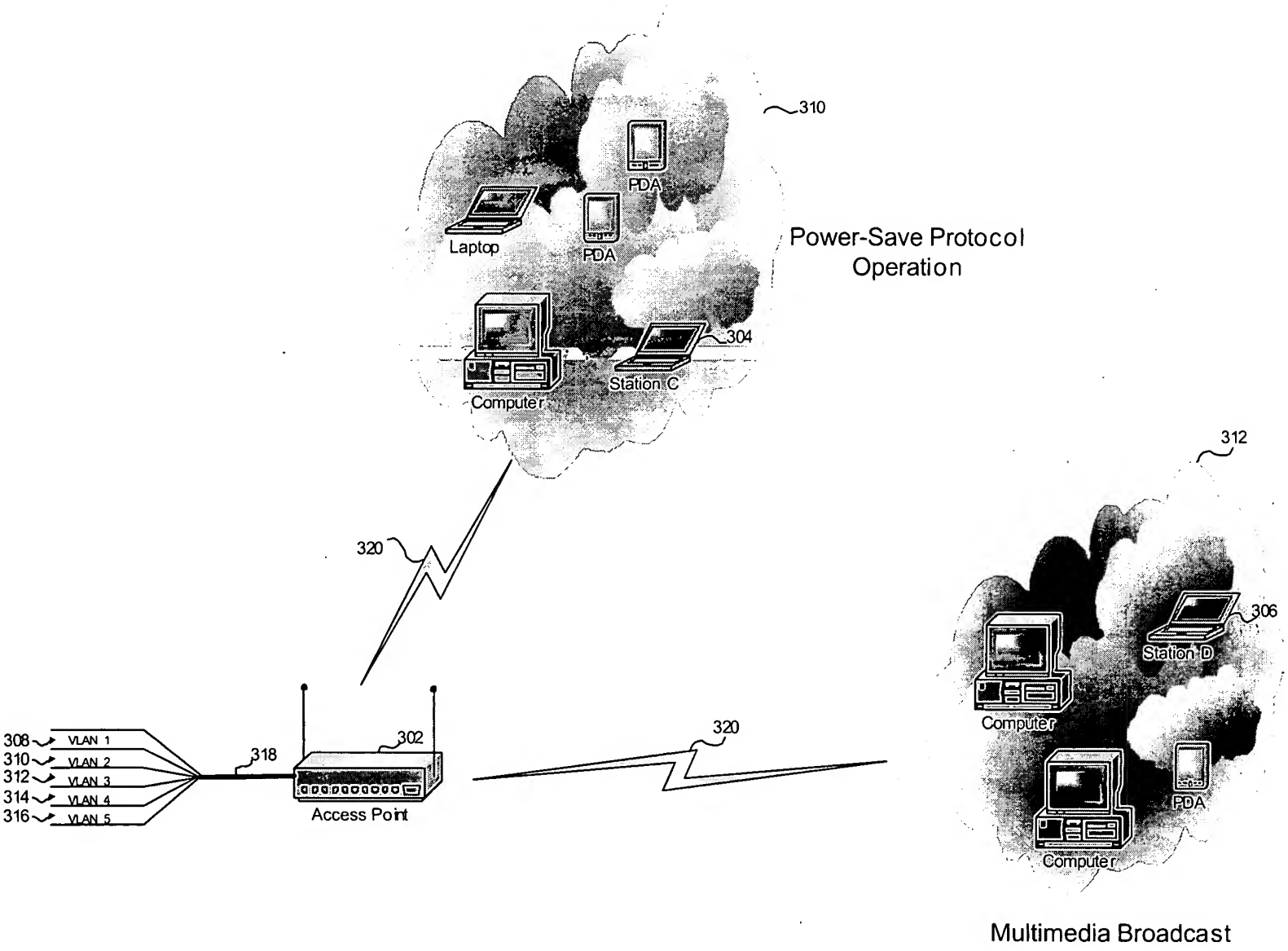
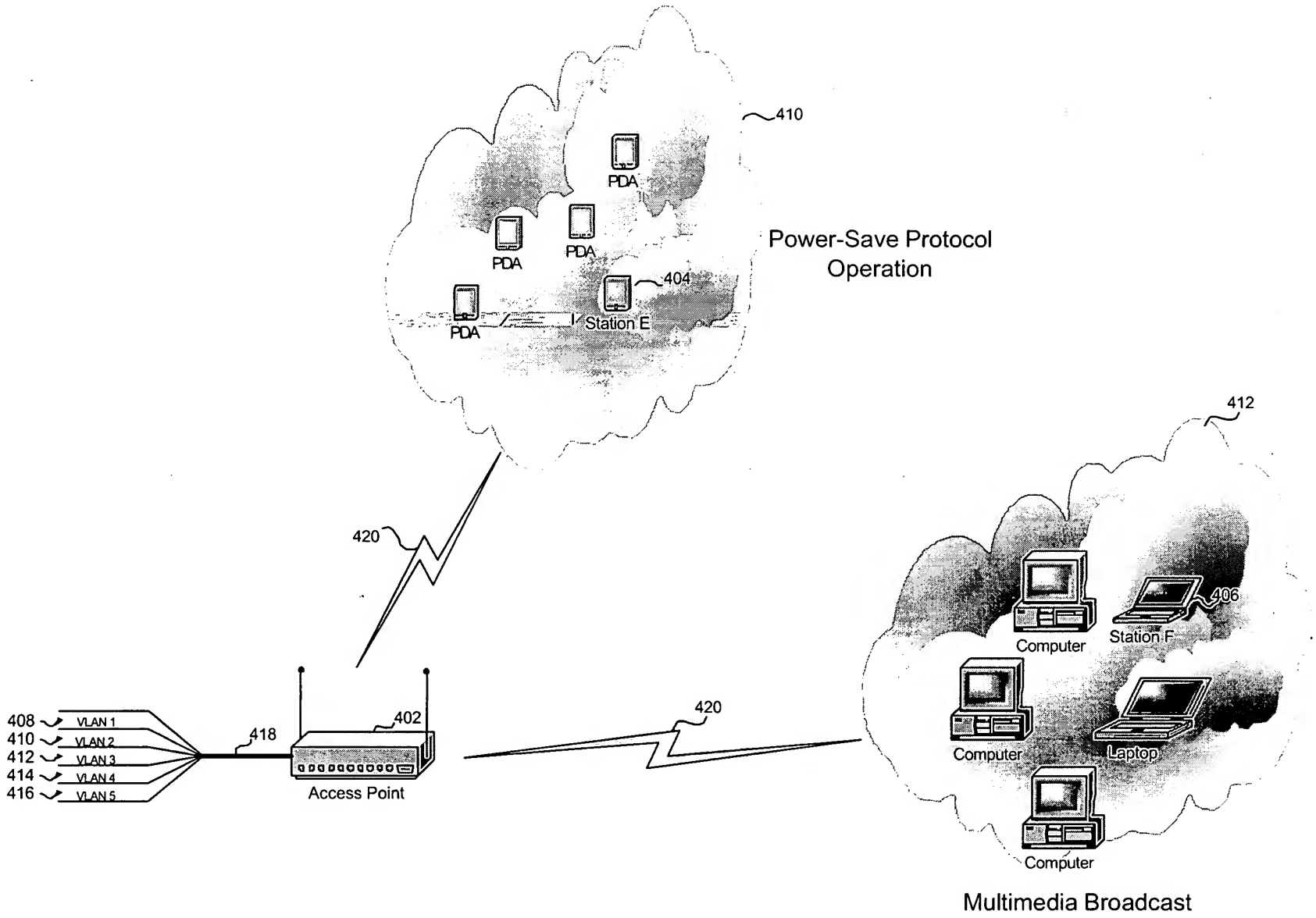

START
802.11 Authentication/ Association
202
Network Authentication
204
Is VLAN Operation Available?
206
No
Yes
Determine VLAN Assignment
208
Track all VLANs for which Access Point Provides Access
210
Does VLAN have Exclusively Active Stations?
212
No
Yes
Follow 802.11 Standard Batch/ Queue Procedures for Power-Save Protocol Operation
216
Transmit Queued Multicast/Broadcast Packets (if any) with next DTIM
218
Deliver all Multicasts/ Broadcasts to VLAN Immediately
214
END

FIG. 2



ORGANIZE VLAN BY APPLICATION

FIG. 3



ORGANIZE VLAN BY HARDWARE

FIG. 4